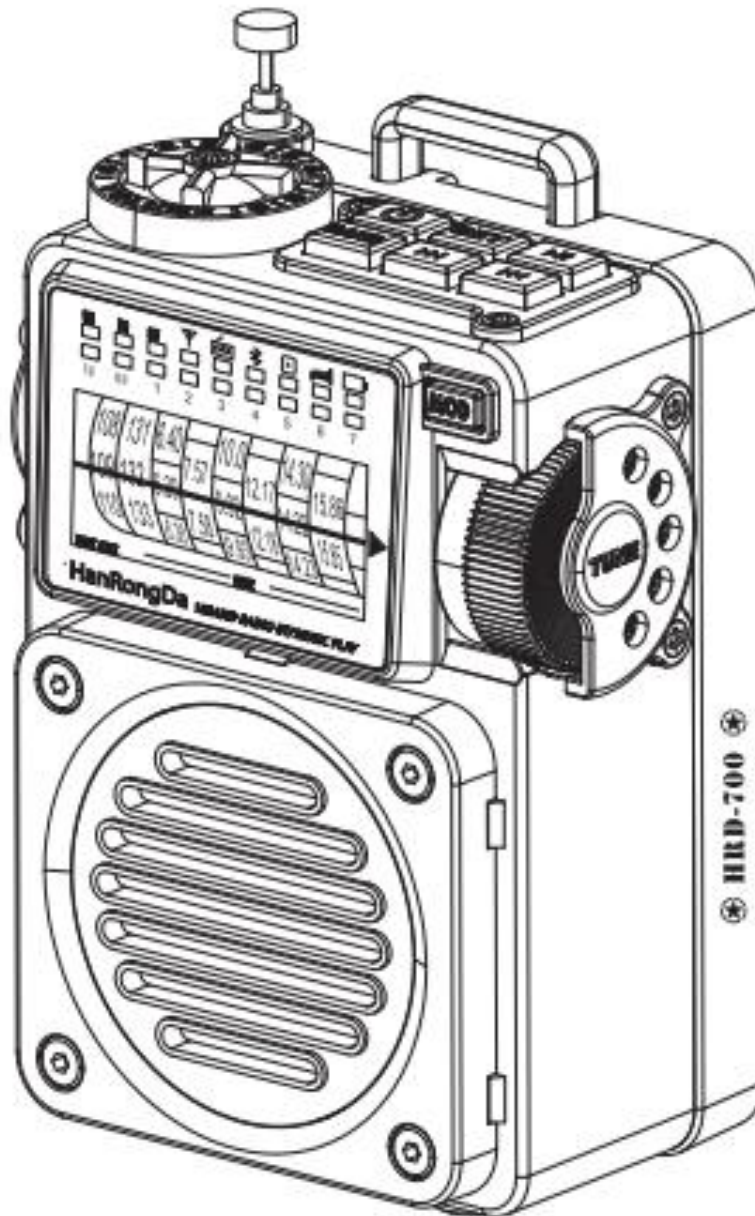


# Portable Multimedia Music Player

Full band broadcast reception • Bluetooth • TF card broadcasting • APP Intelligent remote control

## Operation Instruction

(Model: HRD-700)



Thank you for your purchase. Please read this operation guide carefully before your usage and keep it properly.

## 1: Overview of HRD-700 portable multimedia music player

This is a multimedia music player created by our company. It has high fidelity sound quality. We hope that it can bring more fun to people who love music.

Give radio lovers different experience.

Features of this product:

\*This product uses software programming to realize the full-band radio broadcasting reception of FM, medium wave, short wave, WB (weather band in North America) and ensure good receiving sensitivity.

\*This product uses high-tech audio technology. It can be connected with Bluetooth for wireless music transmission and playback and can support a maximum of 256G TF card music format playback.

\* In radio mode, this product supports digital analog tuning/mechanical tuning so as to give users a new experience.

\*Tuning key is tuned using coded pulley and can be selected between level 0 and 9.

\*“Music spectrum light” mode can be used in all working states, which can bring you into the beautiful music melody

\* This product uses BL5C 1000MAH lithium battery, which can ensure long duration life. The battery can be disassembled, which can extend the service life of the product.

\*In Bluetooth and TF card music playback mode, this product supports six kinds of playing audio EQ:

1: NORMAL; 2: POP; 3: ROCK; 4: JAZZ;

5: CLASSIC; 6: COUNTRY

\* This product can set the shutdown (sleep) time and you can set 70-60-50-40-30-20-10 minutes of sleep.

\*This product uses medium wave for reception and users can choose 9KHZ/10KHZ medium wave step value. There is no limit of national boundaries.

\*The short wave receiving mode of this product is set to seven meter waves for easy use.

\*Under radio mode, this product can be set to enable LED backlight lighting. You can turn off the backlight.

\*This product can remember 297 stations in radio mode (99 stations per band)

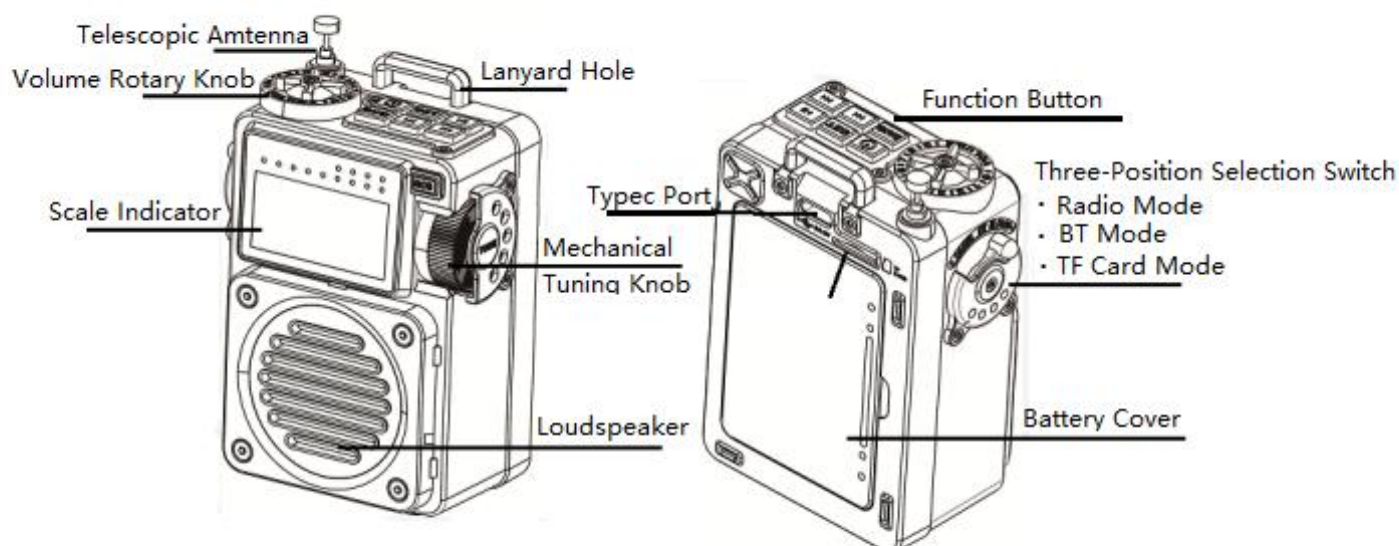
\*This product uses a type-c jack to achieve the two-in-one function of charging and headphone output.

\* This product supports mobile APP intelligent remote control to increase the playability of the radio. The radio captures a better signal outside and users can control it with a mobile phone inside.

## 2: Package Internals




Name	Quantity
HRD-700 portable multimedia music player	1 set
Sling	1 piece
BL5C Lithium Battery (1000MAH 3.7V)	1 piece
USB TYPE-C charging cable	1 piece
Type-c to 3.5mm earphone adapter cable	1 piece
Cloth bag	1 piece
Operation instruction	1 piece
Packaging gift box	1piece



## 3: Diagram for Appearance Button Functions



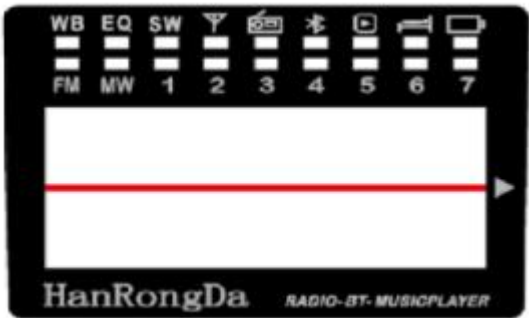
#### 4: Introduction to top button functions:










	<p>1: Power On/Off:</p> <p>Long press to turn on the radio</p> <p>Long press again to turn off the radio</p> <p>2: Set Sleep Shutdown Timer:</p> <p>While powered on, lightly press to enter the sleep shutdown timer settings</p> <p>Each light press selects the shutdown time of 70-60-50-40-30-20-10 (minutes)</p>
	<p>1: Set EQ Sound Effects:</p> <p>Long press to enter EQ sound effect settings, then lightly press to select: Normal / Pop / Rock / Jazz / Classical / Country (six options)</p> <p>2: Shortwave and Medium Wave:</p> <p>In shortwave working mode, lightly press to select medium wave</p> <p>3: After connecting to the app, long press to exit app reception mode</p>
	<p>1: Radio Operation Mode: Press lightly to mute/unmute</p> <p>Long press to enter full automatic station search and storage</p> <p>2: Bluetooth/TF Card Playback Mode: Press lightly to pause/play</p> <p>1: Radio Operation Mode: Switch between FM, AM, SW, and WB bands</p> <p>2: TF Card Operation Mode: Switch playback modes</p> <p>3: Bluetooth Operation Mode: Long press to disconnect Bluetooth playback</p>

	<p>1: Radio Operation Mode: Press lightly to increment station tuning/automatic station search</p> <p>2:Music Playback Mode: Next track</p> <p>3:TF Card Operation Mode: Long press to fast forward</p> <p>4: In radio operation mode, press lightly to switch between digital tuning and mechanical tuning modes</p>
	<p>1: Radio Operation Mode: Press lightly to decrement station tuning/automatic station search</p> <p>2:Music Playback Mode: Previous track</p> <p>3: TF Card Operation Mode: Long press to rewind</p> <p>4:In radio operation mode, press lightly to switch between digital tuning and mechanical tuning modes</p>

### 5: Product Indicator Light Diagram



FM	Frequency Modulation Receiving Mode
MW	Medium Wave Receiving Mode
SW	Short Wave Receiving Mode
WB	Weather Band Receiving Mode (North America)
EQ	Audio Effect Adjustment Mode
	Tuning Signal Indicator
	In Digital Tuning Mode
	Flashing Indicates Waiting for Bluetooth Connection Steady Light Indicates Successful Bluetooth Connection If the device is connected to the app, the Bluetooth indicator will flash after power-off
	Flashing Indicates Waiting to Insert TF Card Steady Light Indicates TF Card Playback/Pause
	Automatic Sleep Shutdown Time Indicator Enabled
	Flashing: Charging/Low Battery Indicator Steady Light: Fully Charged

	SW Mechanical Tuning Mode: Meter Wave Indicator WB Working Mode: 7 Weather Frequency Selection Tuning Mode: Tuning Address Number EQ Selection: 6 Audio Effect Choices Playback Mode Selection: 4 Playback Mode Options Battery Indicator: LED 1-7
---	---

## 6: Inserting/Removing Batteries





Open the battery cover \_\_\_\_\_ Align the positive and negative terminals of the battery

with the radio. \_\_\_\_\_ Securely close the battery cover, ensuring the three contacts in the battery compartment are properly connected

Recommendation: Before first use, it is advised to fully charge the battery.

## 7:Product Function Introduction

**7.1: Power On/Off:** Long press the “  ” button for 2 seconds; all lights will flash once in a rocking manner, indicating that the device is powered on. In power-on mode, long press the “  ” button for 2 seconds to turn off the device.

**7.2: The device has three playback modes:** RADIO (Radio Mode) / BT (Bluetooth Receiving Mode) / M-PLAY (TF Card Playback Mode).

On the left side of the device, there are three power settings. Please select the desired function according to your needs (ensure that the volume knob is turned on before use).

When switched to any working mode, the device will announce in English: "Radio --- Bluetooth mode --- Music."

### 7.3: Volume Adjustment

Rotate the VOLUME knob clockwise to increase the volume, which can be adjusted to a maximum level of 9. Rotate the VOLUME knob counterclockwise to decrease the volume. Please adjust the volume appropriately between levels “0-9” according to your requirements.

7.4: Listening to RADIO Broadcasts:

This device can receive MW (Medium Wave), FM (Frequency Modulation), SW (Short Wave), and WB (Weather Band for North America). The reception range for each band is as follows:

1	MW: 522-1620KHz (AM step value 9KHz)	FM:76-108MHz	SW:3.2-21.95MHz	WB:162.400-162.550MHz
2	MW: 520-1710KHz (AM step value 10KHz)	FM:87-108MHz	SW:3.2-21.95MHz	WB:162.400-162.550MHz

The factory default is the first option.

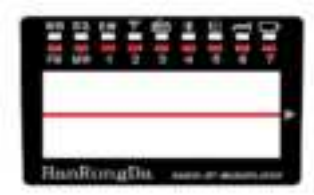
Adjustment Method for Medium Wave Step Value 9KHZ/10KHZ:

When the device is powered off, long press the “BAND” button for more than 2 seconds.

The illumination of 9 lights indicates that the current medium wave step value is 9KHZ, while the illumination of 10 lights indicates that the current medium wave step value is 10KHZ.

When either 9 or 10 lights are illuminated, a light press of the “BAND” button will switch between AM step values of 9KHZ and 10KHZ.

Step Value 9KHZ Indicator Diagram:



Step Value 10KHZ Indicator Diagram:



Note:

In North American countries such as the United States, Canada, and Mexico, the medium wave step value must be set to 10KHZ. In other countries, the medium wave step value is 9KHZ.

The frequency range for a medium wave step value of 9KHZ is 522-1620KHZ.

The frequency range for a medium wave step value of 10KHZ is 520-1710KHZ.

When listening to FM, SW, or WB bands, please extend the telescopic antenna.

**7.4.1: Band Switching:** In the powered-on state, lightly press the “BAND” button to switch between MW/FM/SW/WB bands.



**7.4.2: Station Search Methods:** Fully Automatic Search and Storage of Stations, Automatic Search for Stations, and Manual Station Selection via Mechanical Scroll Wheel

By long-pressing the "SCAN" button, the radio automatically enters the mode for searching and storing stations. The LED lights numbered 1-7 will indicate progress in a scrolling manner.

Upon completion of one search cycle, the radio will begin playing the first detected station.



The product is capable of storing up to 297 stations, with 99 stations allocable for each of FM, medium wave, and shortwave bands.

The number of stations that can be stored depends on the signal strength and availability in the local area.

After completing the search and storage of stations, press the “  ” or “  ” button to enter the mode for selecting a radio station.


During station selection, the LED lights numbered 1-7 will display in a binary manner, with the numbers flashing.

For example: 1, 2, 1&2 (indicating both 1 and 2 are lit), 3, 1&3, 2&3, and so on.

Automatic Station Search: Long press the “  ” or “  ” button to enable the radio to automatically search for stations with signals, indicated by the sequential lighting of LED lights numbered 1-7.

Stop the search and begin playback upon receiving a signal station.

Mechanical Tuning Method: Slowly turn the tuning knob to search for a station with a signal.

Note: When a station with a signal is found, the signal indicator light “  ” will illuminate.



#### 7.4.3: Regarding Short Wave Mode

Press the “BAND” button to switch to Short Wave (SW) mode (indicator light is on). Press the “SET” button to switch the frequency bands:

3.200 MHz, 4.750 MHz, 7.350 MHz, 12.100 MHz, 15.800 MHz, 17.900 MHz, 21.850 MHz.

When switching frequency bands, LED lights 1-7 will illuminate in sequence.

#### 7.4.4: Regarding North American WB Weather Band

Press the “BAND” button to switch to the WB Weather Band. Press the “  ” and “  ” buttons, or turn the tuning knob to select the corresponding reception frequency points. The LED digital display lights 1-7 indicate the corresponding reception frequency points:

1: 162.400 MHz, 2: 162.425 MHz, 3: 162.450 MHz, 4: 162.475 MHz,

5: 162.500 MHz, 6: 162.525 MHz, 7: 162.550 MHz.


Long press the “▶ |” button for 2 seconds to enter the automatic alert “ALERT” mode. In the automatic alert “ALERT” state, long press the “▶ |” button for 2 seconds to exit the automatic alert “ALERT” function.


#### 7.4.5: Enabling the Backlight in Radio Mode

In radio mode, long press the “MOD” button for 2 seconds to turn the LED lighting on or off, facilitating nighttime use.





#### 7.5: Bluetooth Operation:

The Bluetooth connection name for this product is “HRD-700.”

When powered on, set the left-side function switch to the “BT” position. The Bluetooth “” indicator light will blink, indicating that the device is waiting for a connection.

Enable Bluetooth on your mobile phone. Once the connection is successful, the “” indicator light will remain on, signaling a successful Bluetooth connection.


Both the mobile phone and this device can be used to control functions such as volume adjustment and track selection.

After a successful connection, if the device is powered off or the operating mode is changed, it will automatically reconnect upon power-up without the need for re-pairing. Once connected, the Bluetooth “” music symbol will remain lit. At this point, press the “” and “” “” buttons or start music playback on the device to successfully play Bluetooth music.


The effective Bluetooth reception distance is up to 10 meters, allowing easy connection to digital devices such as laptops, mobile phones, and tablets for wireless music transmission.



Long press the “BAND” button to exit Bluetooth mode.



#### 7.6: TF Card Playback Operation:

In the powered-on state, set the function switch on the left side of the device to the “M\_PLAY” position. The “” indicator light will blink, indicating that the device is waiting for the TF card to be inserted.

On the back of the device, insert the TF card correctly into the card slot as indicated.

Once the TF card is inserted, the “” indicator light will remain on, and MP3 music will begin playing.

Press the “” and “” keys to select the next or previous track.

Long press the “” and “” keys for fast forward and rewind playback.

A light press of the “▶ |” key will toggle between pause and play.

Note: To properly remove the TF card, gently press the TF card, and it will spring out (please do not pull it outward).

## 8: Regarding the EQ Sound Effect Selection for Music Playback:

Operating Mode: Press and hold the "SET" button to enter the EQ settings, where six options are available:



The digital indicator lights correspond to the following EQ sound effects:



1: Normal (NORMAL), 2: Pop (POP), 3: Rock (ROCK),  
4: Jazz (JAZZ), 5: Classic (CLASSIC), 6: Country (COUNTRY)

If no operation is performed within 3 seconds, the adjusted EQ sound quality will be confirmed, and the EQ indicator light will turn off.

## 9: Setting the Automatic Power-off (Sleep) Function:

In the powered-on state, lightly press the “  ” key. The “  ” indicator light and the number lights 1-7 will illuminate, entering the sleep shutdown setting function

(each illuminated light represents 10 minutes). Press the “SLEEP” key again to select the sleep shutdown time:

70 minutes, 60 minutes, 50 minutes, 40 minutes, 30 minutes, 20 minutes, 10 minutes, or to cancel the sleep shutdown function.



If no operation is performed within 5 seconds, the last selection will be saved by default. The radio will automatically power off after reaching the set shutdown time.

## 10: Type-C Port: Charging & Headphone Combo

### 10.1 Charging:

In the working state, lightly press the "MOD" key to illuminate the battery indicator light, which displays the battery usage level. When the battery level indicators "1-7" are off and the " " light is blinking, it indicates that the battery is low. Please charge the device in a timely manner to avoid affecting normal usage. It is recommended to use a charging device with an output voltage of DC 5V/1A to DC 3A to prevent damage to the lithium battery or the device.

If the lithium battery will not be used for an extended period, please ensure it is removed and stored separately, and make sure to charge it once a month.

Use the included power cable to charge the radio. During the charging process, the “  ” indicator light will blink. Once fully charged, the “  ” indicator light will stop blinking.

The typical charging time is approximately 3-4 hours.

### 10.2 Using as Headphones:

Using the included Type-C to 3.5mm adapter cable, connect the Type-C end to the device's Type-C port, and insert your headphones into the 3.5mm jack (headphones must be purchased separately). This will allow you to listen to the product through headphones. (Note: After inserting the headphones, please adjust the volume to a moderate level to avoid damaging the headphones.)



This is a Type-C to 3.5mm connection cable (included as a random accessory).

## 11: Activating the Music Spectrum Light:

In the power-on state, lightly press the “MOD” button a second time to activate the music spectrum light. The music spectrum light will flash from high to low and from low to high, changing in response to the melody of the music.

To turn off the music spectrum light, press the “MOD” button again.

## 12: Using the Antenna:

When listening to SW (shortwave), FM (frequency modulation), and WB (weather band) broadcasts, extend the antenna and adjust its length and direction to find the optimal reception.

\*Note: If experiencing strong radio interference causing cross-talk, shorten the telescopic antenna.

For listening to MW (medium wave) broadcasts, the device uses a built-in magnetic antenna for medium wave reception. The magnetic antenna has a certain directional capability when receiving signals, so rotating the device may help find the best reception position for MW.

## 13: Key Technical Parameters:

Reception Range	MW: 522-1620KHZ(medium wave step value 9KHZ) 520-1710KHZ (medium wave step value 10KHZ) FM:76-108MHz SW:3.2-21.95MHz WB:162.400-162.550MHZ
Reception Sensitivity	FM:≤8dB MW:≤86dB SW≤32dB
Static Current	≤60uA
Maximum Current	≤650MA
Speaker	Φ40mm/4Ω/3W
Signal-to-Noise Ratio	FM:≥40dB MW:≥30dB SW:≥40dB
Radio Mode Station Memory	Can store 297 stations (99 per band)
Bluetooth Version	VER 5.1
Bluetooth Reception Distance	≤10 meters
Minimum Operating Voltage:	3.4V
External Input Voltage	DC: 5.0 V
Lithium Battery	BL5C Lithium Battery: 3.7 V, 1000 mAh

TF Card Playback Formats	MP3,WMA,WAV,FLAC,APE
TF Card Maximum Supported Capacity	256G
Tuning Mode	Digital Tuning / Mechanical Tuning (Dual Use)
Product Dimensions	88x53x37MM
Product Net Weight	100 g

## 14:Regarding APP connection

### 14.1: Illustration of Mobile APP Download Instructions:

Step 1: Power on the radio

Step 2: Install the APP software

Step 3: Successful installation on the mobile home screen

Step 4: Click to enter APP mode, then select “HRD-700-BLE” and click to connect.



If the radio is connected to the APP and does not exit, after shutting down, the Bluetooth indicator will keep flashing.

Exit APP connection operation: After shutdown, long press [SET] key, Bluetooth indicator is off, then exit APP.

### 14.2: APP Installation

If the Radio-c  APP has already been downloaded, there is no need to download it again. You can directly click to connect to the HRD-700-BLE .

A: For Android and HarmonyOS phones, please scan the following QR code to install the APP.

Android and HarmonyOS phones support installation via the phone's browser to scan the QR code.

For detailed instructions, please refer to [specific instructions14.2.1 ].

B: For Apple devices, please visit the “App Store” and search for “Radio-CT” to download.

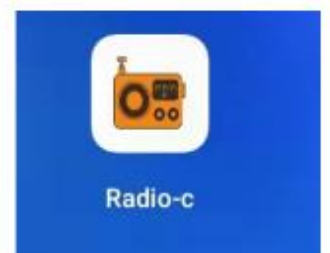


For Android and HarmonyOS phones, please scan this QR code to install the APP.



Apple Devices: You can search for “Radio-CT” in the App Store to download and install. Alternatively, you can scan the QR code above to access the App Store for downloading.

14.2.1: After enabling the browser to scan the installation QR code for HRD-700, follow the prompts: click “Download,” then click “Continue Installation.” Once the installation is complete, click “Open Application.” The APP icon will appear on the mobile home screen.



**14.3: Entering APP Mode for Use:**

Click the APP icon on the mobile home screen to access it. Tap the symbol in the bottom right corner of the APP interface,  
select “Allow,” then click the symbol again. Choose HRD-G18-BLE to establish a successful connection.



Android/HarmonyOS Mobile

Apple Mobile Download Desktop Icon

Download Desktop Icon

#### 14.4: FM Working Mode Key Function Introduction in the APP








Symbol	Key Function Descriptions
Demodulation	FM: MONO(working with Loudspeaker) /ST (working with insert earphone ) AM: AM , SW:AM, WB:NFM
Bandwidth 200	Bandwidth: 200KHz
SNR	Signal to Noise Ratio
RSSI	Receive Sensitivity
VOL **	Sound level Indicator
Band FM	Sound level Indicator
	View Device Version
	Battery Indicator
	Radio frequency display,working mode display
	Edit the frequency name: long press this position, input the present frequency name according to the language tips. Such as FM99.1MHZ is the radio station in Longgang of Shenzhen City, you can store it manually.
Preset **	Recall / Memory station number
	Music playback mode switch key switch to TF card/Bluetooth playback mode
	Enable and unmute mute
MHZ KHZ	Unit
MEMO	Recall station: Tap to enter the Recall mode, Press [↔] to select the recall station Tap the MEMO button again to exit the recall station mode.
	Manual storage station:Find the target frequency, long press [MEMO] button, "Preset" symbol is blink, press [↔]Select the storage address number, Press and hold [MEMO] to confirm the storage.
	Digital key press frequency: press [ENTER] key first, press the effective target frequency on the digital keyboard, press [ENTER] key to confirm that you can directly press the required playback frequency.
	Access key: On the numeric keypad, directly click the address number of the outgoing storage station, press [ENTER] key to confirm. If "Present--" is displayed, it is empty.
METE	Short-wave receiving mode Fast select to meter wave: 3.200MHz, 4.750MHz, 7.350MHz, 12.100MHz, 15.800MHz, 17.900MHz, 21.850MHz
SCAN	Long press to enter the automatic search storage station
ENTER	Enter, confirm key
BAND	Tap to switch radio bands
	Frequency increment, decrement, deposit station, take station address number selection
VOL + -	VOL+: Volume increases VOL-: Volume decreases
	Tap to power on, and tap again to power off.
EQ	Long press [EQ] button to Select EQ Sound: E1: PASS 14K, E2:POP, E3: ROCK E4: JAZZ, E5: CLASSIC, E6: COUNTRY
	The mobile APP connects to the entry button of the HRD-700 radio. Press and hold for 2 seconds to exit the APP connection
	Set the automatic shutdown time: 10-20-30-40-50-60-70 (minute) OFF:Indicates to cancel the automatic shutdown time



## 14.5: BT Working Mode Key Function Introduction in the APP
















Symbol	Key Function Descriptions
Key function descriptions	Wait for the Bluetooth connection prompt
Bluetooth connected	Bluetooth connection succeeded
EQ	Six EQ options: E1: NORMAL, E2:POP, E3: ROCK E4: JAZZ, E5: CLASSIC, E6: COUNTRY
 Normal	Directly click on the symbol to select EQ
VOL + -	VOL+: Volume increases VOL-: Volume decreases
 MUSIC	Music playback mode switch key switch to TF card/Bluetooth playback mode
BAND	Tap to switch radio receive mode
	select PREV,NEXT Song
	Play & Pause
	Set the automatic shutdown time:: 10-20-30-40-50-60-70 (minute) OFF:Indicates to cancel the automatic shutdown time



## 14.6: BT Working Mode Key Function Introduction in the APP



Symbol	Key Function Descriptions
EQ	Six EQ options: E1: NORMAL, E2:POP, E3: ROCK E4: JAZZ, E5: CLASSIC, E6: COUNTRY
	Directly click on the symbol to select EQ
VOL + -	VOL+: Volume increases VOL-: Volume decreases
	Music playback mode switch key switch to TF card/Bluetooth playback mode
BAND	Tap to switch radio bands
	select PREV,NEXT Song
	In the TF card playing mode, in the number keyboard, directly click the song serial number, press [ENTER] key to confirm.
MODE	Tap to switch the following working mode: Turn off the backlight/display the current working mode/ display the battery indicator/ enable the running light
	select playback mode:  repeat all,  repeat one,  repeat file,  random
	Play & Pause
	Set the automatic shutdown time:: 10-20-30-40-50-60-70 (minute) OFF:Indicates to cancel the automatic shutdown time

## 15. Matters needing attention

Please comply with the following safety tips to use this product, ensuring safe and reliable use.

- ◆ Read and know all safety instructions and use information.
- ◆ When the battery symbol “” appears or the frame of the symbol “” flashes, it means low battery level. Please charge the battery timely to ensure normal use.
- ◆ Please use the charging device with input voltage of DC5V/1A-DC3A to charge the battery, or the battery or the device will be probably damaged.
- ◆ If the radio is not in use for a long time, please charge it once a month.
- ◆ Keep the product away from rainwater and damp. Do not drop or splash any liquid onto the product.
- ◆ Keep the product away from high-temperature heat source. Do not bake or blow the product at high temperature.
- ◆ Avoid direct sunlight for a long time.

FCC Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This

Equipment generates,uses and can radiate radio frequency energy and,if not installed and used in accordance with the instructions,may cause harmful interference to radio communications.However,there is no guarantee that interference will not occur in a Particular installation.If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**REV1.0**